

Core Tuner S- Auto Fiber Concentricity Tester



Core Tuner is fiber optic connector concentricity testing and adjusting equipment developed by Dimension Technology based on many years of experience in instrument development. We developed two types of equipment— Core Tuner S (automatic) and Core Tuner (manual) to meet different requirements from customers. The instruments define new standards of concentricity machines. Superior image processing capabilities gives Core Tuner excellent performance—high numerical accuracy, repeatability. The systems are automatic, intelligent, easy to use with strong vibration resistance and durability.

Main Features

- High accuracy
- High repeatability
- Auto exposure
- Auto focus
- Auto mark KEY
- Can test APC connector, Easy to use
- Vibration resistance

Applications

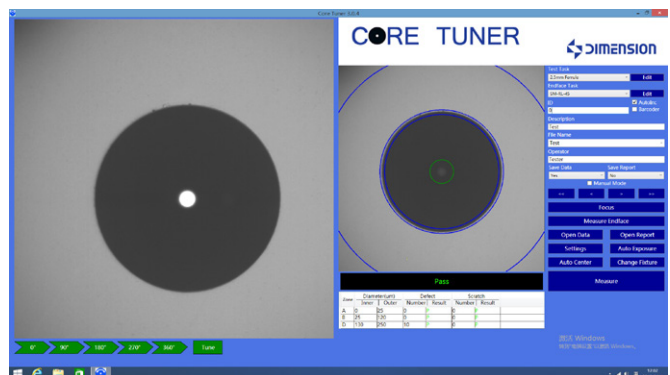
- Used for fiber core endface inspection and concentricity adjustment during polishing and assembly



Bare fiber core testing diagram

Function Introduction

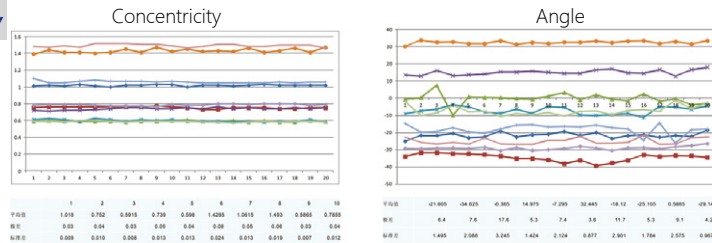
Fiber connector has loss in data-link due to many causes, such as horizontal mismatch, vertical mismatch and axial mismatch. The main cause of insert loss is horizontal mismatch. The mismatch between two fiber cores will cause large insert loss .



Endface inspection

High Accuracy, High Repeatability

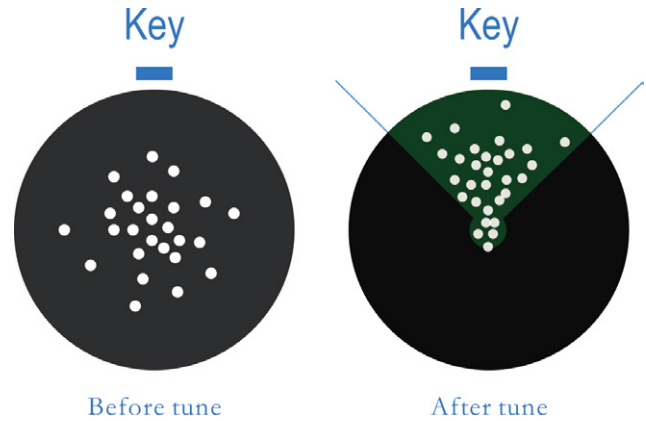
Here are 10 PCS tested pieces of charts and data, using 100000 times fixture repeat test after aging 20 times of the test data.



Powerful Testing Function

Core Tuner not only can measure the optical fiber connector after assembly concentricity, can also test of optical fiber connector assembly concentricity, and adjust the fiber Core of deviation Angle, labeled assembly position, so as to reduce the wastage of the optical fiber connector, the connector of the overall quality improved greatly.

Core Tuner tuning right at the same time can also detect naked insert Core concentricity, as well as the single Core insert Core, connectors, face detection.



Auto Mark Key

Core Tuner S at 2.5 mm / 1.25 mm Ferrule measurement mode, the single test task is completed, the hardware automatic adjust the Angle of Bearing to the required range, at the same time the software Interface indicates KEY position, convenient for the subsequent assembly work.

Can Test APC Connector

CORE TUNER not can detect PC connectors, but also can detect APC connectors without replacing fixture.



Specifications

Item	CORE TUNER C	CORE TUNER S
Rotate way	Manual	Auto
Test Speed	8s	4s
Concentricity Repeatability	±0.1um	±0.08um
Bearing angle Repeatability	±10°	±5°
Focus	Auto	
Image Brightness	Auto	
Applications	PC & APC 1.25mm ferrule & connector	PC & APC 2.5mm ferrule & connector
Power supply	DC 24V	
Size (H*W*D)	270mmX150mmX 112mm	

Dimension Technology Co.,Ltd

Tel: +86 755-26480850

Email: sales@dimension-tech.com

Web: www.dimension-tech.com